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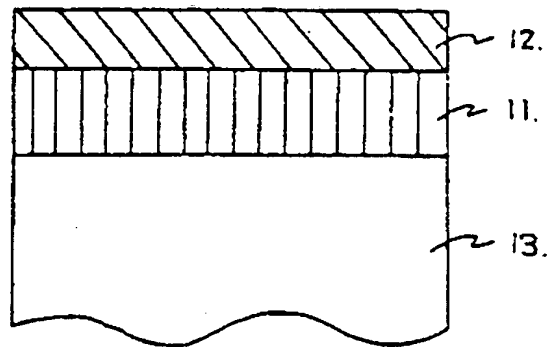
APPLICATION DATE : 24-06-86
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TITLE : ANTIREFLECTION FILM



ABSTRACT : PURPOSE: To obtain a preventive film having an excellent antireflection characteristic by providing an antireflection film consisting of two layers of thin films having the optical characteristics varying from a transparent base material toward the atm. side to at least part of the base material.

CONSTITUTION: The antireflection film is constituted of two layers of the thin films; a high-refractive index thin film 11 and low-refractive index thin film 12, at the time of depositing said antireflection film on the surface of a plastic lens 13. The optical characteristic of the layer 11 in such constitution is specified to $1.55 < n_a < 2.25$, $0.8 \times m\lambda_0/4 < n_a d_a < 1.2 \times m\lambda_0/4$ and the optical characteristic of the layer 2 is specified to $1.35 \times n_a < 1.50$, $0.8 \times \lambda_0/4 < n_b d_b < 1.2 \times \lambda_0/4$, where n_a and n_b are refractive indices, d_a and d_b are the film thickness expressed by nm, 1 and 2 are the design wavelength of nm unit in a visible wavelength region. n_a is the value larger than the refractive index of the base material. The essential component of the liquid compsn. is specified to the colloidal liquid prepd. by dispersing titanium oxide particles having 1~100 μ grain size in a solvent.

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